

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. Currently amended claims are shown with additions underlined and deletions in ~~striketrough-text~~. No new matter is added by this amendment.

Listing of Claims:

Claims 1-16 (Canceled).

(17.) (Currently Amended) An apparatus, comprising:

a housing;

a tracking element disposed within said housing, ^{new} said tracking element configured operable to track a motion of said housing in ~~x~~-a first direction and a ~~y~~-second direction different from the first directions-with respect to a flat surface; and

a movement generator disposed within and coupled to said housing, said movement generator configured to deliver a tactile sensation in response to a sensory feedback signal received over a signal channel; and

a resilient material coupled to said housing, said resilient material configured to deliver the tactile sensation by storing and releasing energy.

18. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 17, wherein said movement generator is ~~capable of generating~~ configured to generate vibrations on said housing of varying frequency corresponding to different graphical details on a graphical display.

19. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 18, wherein said sensory feedback signal is configured to convey a particular vibration frequency by a coding of pulse sequences.

20. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 17, wherein said movement generator is ~~operable~~ configured to generate said tactile sensation over the entirety of said housing.

21. (Canceled).

22. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 17, wherein said housing ~~comprises~~ includes a casing portion and a lower portion, ~~wherein~~ said movement generator is ~~operable~~ being configured to generate a motion ~~in~~ move said casing portion with respect to said lower portion.

23. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 22, ~~further comprising~~ a ~~wherein said resilient material~~, ~~said resilient material is~~ disposed within said housing between said casing portion and said lower portion.

24. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 17, wherein said movement generator ~~comprises~~ includes an electromagnetic actuator.

25. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 17, wherein said movement generator is further ~~operable~~ configured to deliver said ~~the~~ tactile sensation ~~in response to a movement corresponding~~ based on an interaction with graphical details on a graphical display, ~~wherein~~ at least one of said ~~the~~ graphical details is being a border of a window.

new

26. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 17, wherein said movement generator is further ~~operable~~ configured to deliver said ~~the~~ tactile sensation ~~in response to a movement corresponding~~ based on an interaction with graphical details on a graphical display, ~~wherein~~ at least one of said ~~the~~ graphical details is being an icon.

new

27. (Currently Amended) ~~An~~ The apparatus as recited in of claim 17, wherein said ~~movement~~ the motion of said housing ~~comprises~~ includes a vibration of said housing, and wherein different graphical details of a graphical display ~~correspond~~ corresponding to different ~~vibration~~ frequencies of the vibration.

28. (Currently Amended) ~~An~~ The apparatus as recited in of claim 17, wherein said movement generator is ~~operable~~ configured to generate a motion of said housing by impacting said housing with a moving portion of said movement generator.

29. (Currently Amended) ~~An~~ The apparatus as recited in of claim 28, wherein said movement generator is configured to impact said housing at a location underneath a top surface of said housing.

30. (Currently Amended) An apparatus, comprising:

a housing ~~comprising~~ including a lower portion and an upper portion, said lower portion ~~designed to move~~ movable over a substantially flat surface;

a tracking element disposed within said housing, said tracking element configured to track ~~for tracking motion~~ movement of said housing with respect to ~~said~~ the substantially flat surface; and

a movement generator disposed within and coupled to said housing, said movement generator configured to ~~generate motion of said housing with respect to said flat surface, and further configured to deliver output~~ a tactile sensation through said housing in response to a sensory feedback signal received over a signal channel; and

a resilient material coupled to said housing, said resilient material configured to enable the output of the tactile sensation by storing and releasing energy.

31. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 30, wherein said movement generator is ~~capable of generating~~ configured to output bump sensations of varying magnitude corresponding to ~~different~~ graphical details on a graphical display.

32. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 30, wherein said movement generator is ~~capable of generating vibrations on~~ configured to vibrate said housing of ~~at varying frequency~~ frequencies corresponding to different graphical details on a graphical display.

33. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 30, wherein said ~~motion of said housing comprises~~ the tactile sensation includes a vibration of said housing, ~~and wherein said~~ the sensory feedback signal is ~~being~~ configured to convey a particular vibration frequency ~~by~~ based on a coding of pulse sequences.

34. (Canceled).

35. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 30, ~~further comprising a resilient material, wherein~~ said resilient material is configured to enable said bump sensation ~~by storing and releasing energy~~.

36. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 30, wherein said movement generator is ~~operable~~ configured to ~~generate said motion in~~ move an upper portion of said housing with respect to a lower portion of said housing.

37. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 36, ~~further comprising a resilient element, said~~ wherein the resilient element is disposed within said housing between said upper portion and said lower portion.

38. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 30, wherein said movement generator ~~comprises~~ includes an electromagnetic actuator.

39. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 30, wherein said movement generator is configured to activate ~~in response to movement corresponding based on a simulated interaction~~ with graphical details on a graphical display, ~~wherein~~ at least one of said the graphical details ~~is being~~ a border of a window.

40. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 30, wherein said movement generator is configured to activate ~~in response to movement corresponding based on a simulated interaction of a cursor~~ with graphical details on a graphical display, ~~wherein~~ at least one of said the graphical details ~~is being~~ an icon.

41. (Currently Amended) ~~An~~ The apparatus as ~~recited in~~ of claim 30, wherein said ~~motion of said housing comprises~~ tactile sensation includes a vibration of said housing and ~~wherein different graphical details correspond to different vibration frequencies.~~

42. (Currently Amended) ~~A computer mouse device as recited in~~ The apparatus of claim 30, wherein said movement generator is configured to ~~generates~~ generate motion of an upper portion of said housing by impacting said upper portion with a moving portion of said movement generator.

43. (Currently Amended) A method, ~~for providing tactile feedback comprising:~~
receiving ~~on~~ at a mouse device a sensory feedback signal; and
generating a movement of a casing portion of said mouse device with respect to a bottom portion of said mouse device in response to said received sensory feedback signal; ~~said~~

~~easing portion including a top surface of a housing of said mouse device, said movement delivering a tactile sensation to said housing.~~

44. (Currently Amended) ~~A~~ The method as recited in of claim 43, wherein generating thea movement generator is configured to includes generate generating vibrations of varying frequency, each frequency corresponding to a different graphical details-detail on a graphical display.

45. (Currently Amended) ~~A~~ The method as recited in of claim 44, wherein said-the sensory feedback signal is operative to conveys-output a particular vibration frequency by a coding of pulse sequences.

46. (Currently Amended) ~~A~~ The method as recited in of claim 43, wherein said-the movement of said-the casing portion is generated by a movement generator including electromagnets.

47. (Currently Amended) ~~A~~ The method as recited in of claim 4346, wherein said-the movement generator is configured to activate in response to movement corresponding based on a simulated interaction with graphical details on a graphical display, wherein-at least one of said the graphical details is-being a border of a window.

48. (Currently Amended) ~~A~~ The method as recited in of claim 4346, wherein said-the movement generator is configured to activate in response to movement corresponding based on a simulated interaction with graphical details on a graphical display, wherein-at least one of said the graphical details is-being an icon.

49. (Currently Amended) ~~A-The method as recited in of claim 43,~~ wherein ~~said motion~~ the movement of said the casing portion comprises includes a vibration of ~~said the casing portion~~ and wherein different graphical details correspond to different vibration frequencies.

50. (Currently Amended) ~~A-The method as recited in of claim 43,~~ wherein a movement generator is configured to generates generate the movement of ~~said the casing portion~~ by impacting ~~said the casing portion~~ with a moving portion of ~~said the movement generator~~.

51. (Currently Amended) ~~A-The method as recited in of claim 50,~~ wherein ~~said the~~ movement generator impacts ~~said the casing portion~~ at a location underneath ~~said palm of said user when said palm contacts said an upper surface of the casing portion~~.

52. (Currently Amended) ~~A-The method as recited in of claim 43,~~ wherein ~~said the~~ movement of ~~said the casing portion~~ includes a slanting of ~~said the casing portion~~ in ~~one a~~ direction with respect to ~~said the bottom portion~~.

53. (Currently Amended) ~~A-The method as recited in of claim 43,~~ further comprising:
limiting a movement of ~~said a cursor~~ to within a border of a graphical detail on a graphical display; and

releasing said cursor from within the border when ~~said the casing portion~~ is ~~pressed down~~ depressed with respect to said bottom portion.

54. (Currently Amended) ~~A computer mouse device as recited in~~ The apparatus of claim 22, wherein said movement of said casing portion includes a slanting of ~~said the casing portion~~ in ~~one a~~ direction with respect to said lower portion.